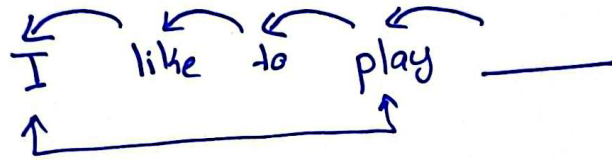


# Problems with RNN

## → Vanishing Gradient Problem

Sentences → Small



Sentence is long {  $t_1$  My  $t_2$  name  $t_3$  is  $t_4$  Saad and I like to play  
cricket, volleyball, football and also like  
to watch  $t=17$

① Long term dependency cannot be captured  
is sentence is longer

## > Solutions :

① LSTM

② GRU